

DRILL HOLES

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PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 175 (ANNAPOLIS RD.) AND McCARRON CT./PARKSIDE BLVD. IN ANNE ARUNDEL COUNTY. MD 175 (ANNAPOLIS RD.) IS INVENTORIED TO RUN IN A NORTH-SOUTH DIRECTION; HOWEVER, IT IS SIGNED AND ASSUMED TO RUN EAST-WEST IN ANNE ARUNDEL COUNTY.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULLY-ACTUATED MODE WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR EASTBOUND AND WESTBOUND MD 175 (ANNAPOLIS RD.), SPLIT PHASING FOR BOTH McCARRON CT. AND PARKSIDE BLVD. VIDEO DETECTION WILL BE USED.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE S-TYPE CONTROLLER WITH SYSTEM PACKAGE AND ONE (1), FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER AND VIDEO DETECTION INTERFACE EQUIPMENT HOUSED IN A S-TYPE BASE MOUNTED CABINET.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE MSHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR MUST PROVIDE MR. SNYDER WITH THE NEAREST ADDRESS, ZIP CODE, AND PHONE NUMBER.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
LS	MAINTENANCE OF TRAFFIC
LS	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
5 CY	TEXT PIT EXCAVATION
190 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
55 LF	5 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
165 LF	5 IN. YELLOW HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
1 EA	CONTROLLER (S-TYPE WITH BATTERY BACKUP) AND CABINET - BASE MOUNT
1 EA	VIDEO INTERFACE EQUIPMENT
200 LF	24 IN. HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKINGS
36 EA	12 IN. L.E.D. SIGNAL HEAD SECTION
12 EA	8 IN. L.E.D. SIGNAL HEAD SECTION
40 LF	2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
70 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
155 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED
1695 LF	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
585 LF	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED
14 CY	CONCRETE FOUNDATION FOR SIGNAL
4 EA	27 FT. MAST ARM POLE & 50 FT. MAST ARM
1 EA	METER SERVICE PEDESTAL
4 EA	VIDEO DETECTION CAMERA AND CABLE
65 LF	WOOD SIGN SUPPORTS 4 IN. X 6 IN.
1 EA	15 FT. LIGHTING ARM WITH 250 WATT HPSV LUMINAIRE
1 EA	CUT, CLEAN, GALVANIZE, AND CAP TRAFFIC SIGNAL STRUCTURE
12 EA	ELECTRICAL HANDHOLE
35 LF	ELECTRICAL CABLE 1 - CONDUCTOR (NO. 4 A.W.G.) - THHN /THWN
100 LF	ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 A.W.G.)
1960 LF	ELECTRICAL CABLE 7 - CONDUCTOR (NO. 14 A.W.G.)
280 LF	ELECTRICAL CABLE 2 - CONDUCTOR (NO. 12 A.W.G.)
2090 LF	12-PAIR COMMUNICATION CABLE
435 LF	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
6 EA	3/4 IN. X 10 FT. GROUND ROD
4 EA	NON-INVASIVE MICRO-LOOP PROBE
4 EA	D-3(1) (VAR X 16") DUAL FACE SIGN - MAST ARM MOUNT
2 EA	SHIELD ASSEMBLY (48" X 75") - POLE MOUNT
2 EA	SHIELD ASSEMBLY (30" X 61") - POLE MOUNT
1 EA	R3-SL (30" X 36") SIGN - MAST ARM MOUNT
1 EA	R3-SR (30" X 36") SIGN - MAST ARM MOUNT
2 EA	W3-S (48" X 48") WITH "NEW" PANEL (30" X 30") - GROUND MOUNT
1 EA	R3-SL (30" X 36") SIGN - MAST ARM MOUNT
2 EA	D-3(1) (VAR X 32") DUAL FACE SIGN - GROUND MOUNT

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MS. KIM TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 841-1003

MR. MIKE HUBER
ASSISTANT DISTRICT ENGINEER - UTILITIES
(410) 841-1039

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. EUGENE BAILEY
CHIEF, TRAFFIC OPERATIONS
(410) 787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652

MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 841-1013

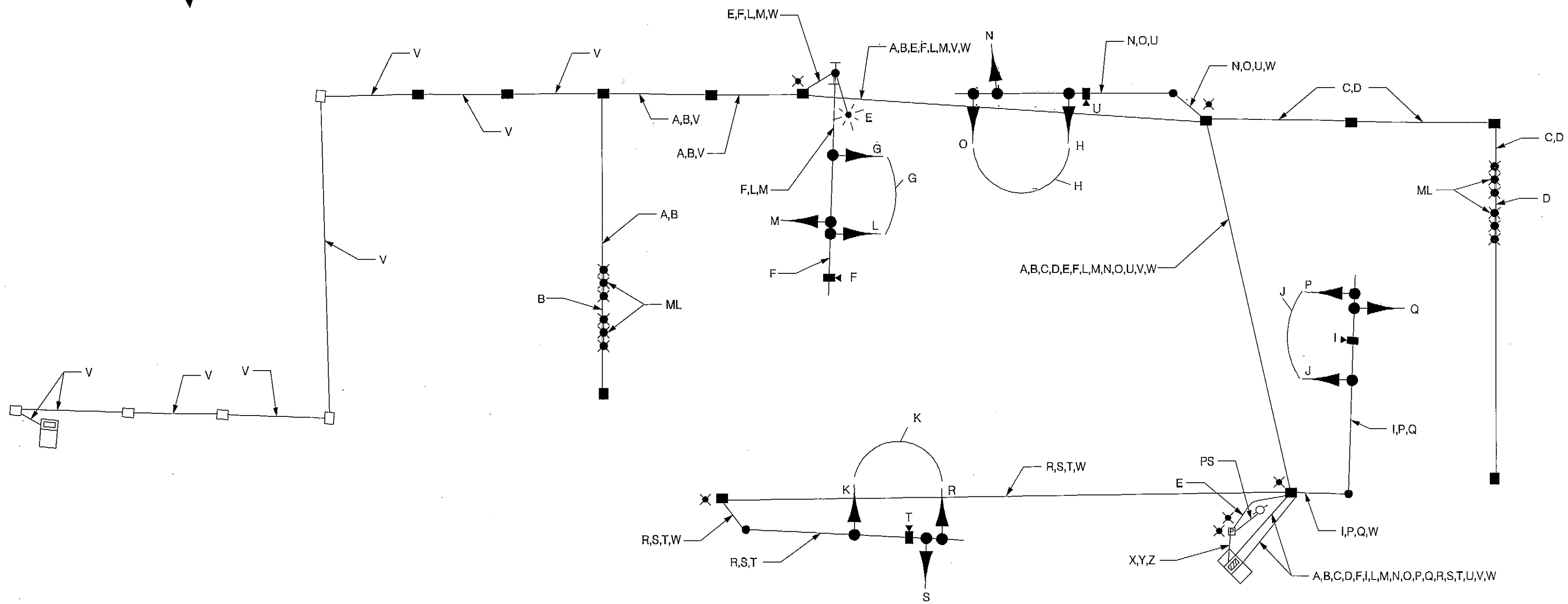
MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676

MR. MIKE STOCKER
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 1 & 5	G	G	R	G	G	R	R	R	R	R	R	R
1 & 5 CHANGE	G	G	R	G	G	R	R	R	R	R	R	R
PHASE 1 & 6	G	G	R	R	R	R	R	R	R	R	R	R
1 & 6 CHANGE	G	G	R	R	R	R	R	R	R	R	R	R
PHASE 2 & 5	R	R	R	G	G	R	R	R	R	R	R	R
2 & 5 CHANGE	R	R	R	G	G	R	R	R	R	R	R	R
PHASE 2 & 6	G	G	G	G	G	R	R	R	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	R	R	R
PHASE 3	R	R	R	R	R	R	R	R	R	R	R	R
3 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4	R	R	R	R	R	R	R	R	R	R	R	R
4 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR

WIRING DIAGRAM



WIRING KEY

A-D	MICRO-LOOP PROBE LEAD-IN
E	2-CONDUCTOR ELECTRICAL CABLE
G,H,J,K	(NO. 12 A.W.G.) TRAY CABLE
L-S	5-CONDUCTOR ELECTRICAL CABLE
F,I,T,U	(NO. 14 A.W.G.)
V	7-CONDUCTOR ELECTRICAL CABLE
W	(NO. 14 A.W.G.)
X-Z	VIDEO DETECTION CABLE
ML	12-PAIR VOICE GRADE INTERCONNECT
PS	CABLE
X	STRANDED BARE COPPER GROUND
Y	WIRE (NO. 6 A.W.G.)
Z	1-CONDUCTOR ELECTRICAL CABLE
ML	(NO. 4 A.W.G.)
PS	MICRO-LOOP PROBE
X	PROPOSED ELECTRIC SERVICE
Y	GROUND ROD
Z	METER SERVICE PEDESTAL

TRAFFIC CONCEPTS, INC.

325 Gambrills Road
Suite B
Gambrills, MD 21054
(410) 923-7101
FAX: (410) 923-6473

EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

FILE PATH: Z:\2500\2546\signal\signal - parkside.dgn
DATE: Wednesday, October 24, 2012 AT 02:05 PM

SHA TRACKING #06-AP-AA-030-10

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 175 (ANNAPOLIS RD.) AND
McCARRON CT./PARKSIDE BLVD.
HANOVER, MARYLAND

GENERAL INFORMATION PLAN

SCALE	NONE	DATE	10-23-2012	CONTRACT NO.	BW996M62
DESIGNED BY	T.ZAYDEL	COUNTY	ANNE ARUNDEL		
DRAWN BY	T.ZAYDEL	LOGMILE	02017507.89		
CHECKED BY	K. SCHMIDT	T.I.M.S. NO.	L118		
F.A.P. NO.	NA	TOD NO.			
DRAWING NO.	TS 4877 GI	SHEET NO.	2	OF	3